

Apparent temperature and cause-specific mortality in Copenhagen, Denmark: A case-crossover analysis

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Abstract:

Temperature, a key climate change indicator, is expected to increase substantially in the Northern Hemisphere, with potentially grave implications for human health. This study is the first to investigate the association between the daily 3-hour maximum apparent temperature (Tapp(max)), and respiratory, cardiovascular and cerebrovascular mortality in Copenhagen (1999-2006) using a case-crossover design. Susceptibility was investigated for age, sex, socio-economic status and place of death. For an inter-quartile range (7 degrees C) increase in Tapp(max), an inverse association was found with cardiovascular mortality (-7% 95% CI -13%; -1%) and none with respiratory and cerebrovascular mortality. In the cold period all associations were inverse, although insignificant.

Source: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3194112

Resource Description

Exposure: M

weather or climate related pathway by which climate change affects health

Air Pollution, Temperature

Air Pollution: Particulate Matter, Other Air Pollution

Air Pollution (other): NO2, CO

Temperature: Extreme Cold, Extreme Heat

Geographic Feature: M

resource focuses on specific type of geography

Ocean/Coastal, Urban

Geographic Location: M

resource focuses on specific location

Non-United States

Non-United States: Europe

Climate Change and Human Health Literature Portal

European Region/Country: European Country

Other European Country: Denmark

Health Impact: M

specification of health effect or disease related to climate change exposure

Cardiovascular Effect, Respiratory Effect

Cardiovascular Effect: Other Cardiovascular Effect

Cardiovascular Disease (other): cardiovascular mortality; cerebrovascular mortality

Respiratory Effect: Other Respiratory Effect

Respiratory Condition (other): respiratory mortality

Population of Concern: A focus of content

Population of Concern: M

populations at particular risk or vulnerability to climate change impacts

Elderly, Low Socioeconomic Status

Resource Type: **№**

format or standard characteristic of resource

Research Article

Timescale: M

time period studied

Time Scale Unspecified